

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the Application.

**Listing of Claims:**

1. (Currently Amended) A method of disseminating information to a plurality of nodes, the nodes connected in a network environment, said method comprising:

receiving, at a given node, a disseminated message, the message having broadcast-type information; and

sending the received message to a plurality of other nodes identified in a partial view, wherein the partial view is specific to each node, resides locally and identifies a subset of the other network nodes, wherein the subset may comprise any of the network nodes ~~independent of hierarchical relationships~~.

2. (Original) A method as defined in claim 1 wherein the act of sending the message to a plurality of nodes further comprises delivery of the message to all nodes identified in the partial view.

3. (Original) A method as defined in claim 1 wherein each node in the network maintains a partial view.

4. (Original) A method as defined in claim 1 wherein the partial view comprises address information for a plurality of nodes on the network, but less than all nodes on the network.

5. (Original) A method as defined in claim 1 further comprising:  
determining whether the received message has been previously received; and  
if the message has been previously received, then the message is not sent to any other nodes.

6. (Original) A method as defined in claim 5 further comprising the act of storing identification information related to the received message to enable the determination of whether the message has been previously received.

7. (Original) A method as defined in claim 1 further comprising:  
determining whether the message is a broadcast-type message; and  
if the message is not a broadcast-type message, the message is not sent to other nodes.

8 - 19 (Canceled).

20. (Currently amended) A computer system for disseminating information in a distributed network comprising:

a receive module for receiving a broadcast message;  
a storage module for storing information related to other nodes in the network in a partial view; wherein the partial view is specific to each node ~~and independent of hierarchical relationships~~; and  
a communication module for transmitting broadcast information to nodes indicated in the partial view.

21. (Original) A computer system as defined in claim 20 wherein the partial view comprises address information for some of the nodes in the network.

22. (Original) A computer system as defined in claim 20 wherein the communication module transmits broadcast information to all nodes identified in the partial view.

23. (Previously presented) A computer system as defined in claim 20 wherein the computer system is part of a distributed network of computer systems, and wherein other computer systems in the network maintain a partial view of the network.

24. (Original) A network of nodes having the ability to communicate information between said nodes, said network comprising:

an application-based broadcast protocol using a gossip-based algorithm;

each node maintains a partial view of the entire network; and  
each node gossips only to other nodes identified in the partial view.

25. (Original) A computer readable medium having stored thereon a data structure comprising:

a first identification field for storing address location information for a node in a network environment;

a second identification field for storing address location information for another node in a network environment;

wherein the first and second identification fields represent a partial view of the network environment; and

wherein the data structure is used for a gossip-based communication between the nodes in the network.

26. (Original) A data structure as defined in claim 25 having a plurality of additional identification fields, each field identifying address information for different nodes in the network.

27-29. (Canceled).

30. (Withdrawn) A method as defined in claim 1 further comprising dynamically updating one or more partial views, wherein the act of updating the partial view comprises:  
receiving a request to subscribe to the network from a new node;  
determining whether to keep the information related to the new node; and  
if the new information is to be kept, storing identifying information related to the new node; and

forwarding the subscription request message to at least one other node in the network.

31. (Withdrawn) A method as described in claim 30 wherein the determining act further comprises:

predetermining a threshold value;  
upon receipt of the request to subscribe, generating a random number;  
comparing the random number to the predetermined threshold value; and  
based on the results of the comparison determining whether to keep the  
information related to the new node.

32. (Withdrawn) A method as defined in claim 31 wherein the threshold value relates to whether the subscribing node randomly chose the receiving node.

33. (Withdrawn) A method as defined in claim 30 wherein the subscription request is received by a node having a partial view of the network and wherein the subscription request is forwarded to all nodes identified in the partial view of the receiving node.

34. (Withdrawn) A method as defined in claim 30 wherein the subscription request is received by a node having a partial view of the network and wherein the subscription request is forwarded to only one node identified in the partial view of the receiving node.

35. (Withdrawn) A method as defined in claim 33 further comprising:  
receiving a forwarding subscription request;  
determining whether to keep the new subscription request based on predetermined criterion; and  
keeping the new node information if the predetermined criterion is satisfied.

36. (Withdrawn) A method as defined in claim 30 further comprising:  
determining whether the new subscription request is new or forwarded; and  
if forwarded, determine whether to keep the information based on a  
predetermined criteria wherein the predetermined criteria relates to a random selection.

37. (Withdrawn) A method as defined in claim 36 wherein the predetermined criterion relates to a probability inversely proportional to the size of the partial view for the existing node.

38. (Withdrawn) A method as defined in claim 37 wherein the predetermined criterion further relates to the distance between the new node and the existing node.

39. (Withdrawn) A method as defined in claim 37 wherein the act of determining whether to keep the new subscription information first determines whether the new subscription information resides in the partial view of the receiving node and if so, forwards the subscription request to another node identified in the partial view of the receiving node.